Please amend the claims as follows:

1. (Withdrawn) A method of manufacturing lower plate barrier ribs for a Plasma

Display Panel (PDP) comprising the steps of:

forming a thick film (or, "green tape") for barrier ribs on a glass or metal substrate by

using composition for forming the barrier ribs, which contains water soluble components and

solvent soluble components together as a binder;

forming a protective pattern film partially soluble or insoluble to the water soluble

solution on the thick film;

etching the thick film into a barrier rib shape by using solution or mixed solution

containing ceramic powder as an etching accelerator; and

sintering the etched thick film.

2. (Currently Amended) A method of manufacturing lower plate barrier ribs for

PDP according to claim 1, wherein the method comprises the steps of:

(1) making a slurry by mixing glass powder and ceramic powder so that a mixing

ratio is in the range between 50:50 and 95:5 (volume ratio), and then mixing 20 to 40 wt% parts

by weight of solvent, 2 to 12 wt% parts by weight of binder including water soluble components and

solvent soluble components, 3 to 18 wt% parts by weight of plasticizer and 0.5 to 2 wt% parts by

weight of dispersion agent and defoaming agent on the basis of 100 wt% parts by weight of the

mixed powder;

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(2) making a thick film by coating the slurry of the glass or metal rear plate in the

thickness of 5 to 200 µm, and then drying the coated slurry naturally or artificially under a

predetermined temperature profile condition;

(3) forming the etching protective pattern film partially soluble or insoluble to the

solution through printing or exposure, development and printing on the thick film formed on the

glass or metal substrate;

(4) etching the thick film on which the protective pattern film is formed into a barrier

rib shape by water-spraying the solution or the mixed solution in which the ceramic powder is

included as etching accelerator; and

(5) removing the protective pattern film and then sintering the specimen at 450°C to

600°C for 0.5 to 1 hour.

3. (Withdrawn) A method of manufacturing lower plate barrier ribs for PDP

according to claim 2, wherein the step (2) is executed by:

making the green tape by coating the slurry on a polymer carrier film in the thickness of 5

to 200µm and then drying the coated slurry naturally or artificially under a predetermined

temperature profile condition; and

making the thick film for barrier rib by laminating the green tape, formed on the polymer

carrier film, on the glass or metal substrate.

4. (Original) A method of manufacturing rear plate barrier ribs for PDP according

to claim 1,

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wherein 0.5 to 10 wt% parts by weight of surfactant based on 100 parts by weight of solvent

and/or 0.5 to 10 wt% parts by weight of wetting agent based on 100 parts by weight of solvent is

added to the solution on the basis of water, which is solvent, wherein water is the solvent.

5. (Original) A method of manufacturing rear plate barrier ribs for PDP according

to claim 1,

wherein the ceramic powder added to the mixed solution has an angled shape and an

average particle size of 0.1 to 10 µm, and an added amount of the ceramic powder is 0 to 30 parts

by weight based on 100 parts by weight of solvent on the basis of water, which is solvent, wherein

water is the solvent.

6. (Currently Amended) Composition for manufacturing barrier ribs for a Plasma

Display Panel (PDP) comprising:

(a) 100 wt% parts by weight of mixture of glass powder and ceramic powder of which a

volume ratio is in the range of 50:50 to 95:5;

(b) 20 to 40 wt% parts by weight of solvent;

(c) 2 to 12 wt% parts by weight of binder including water soluble components and

solvent soluble components together;

(d) 3 to 18 wt% parts by weight of plasticizer; and

(e) 0.5 to 2 wt% parts by weight of dispersion agent and/or defoaming agent.

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7. (Original) Composition for manufacturing barrier ribs for PDP according to claim

6,

wherein the glass powder has an average particle size of 0.1 to 10µm and is selected from

the group consisting of PbO-B₂O₃-SiO₂, P₂O₅-B₂O₃-SiO₂ and Bi₂O₃--B₂O₃--SiO₂ or their

mixtures;

wherein the ceramic powder has an average particle size of 1 to 10µm and is selected

from the group consisting of Al₂O₃, fused silica, TiO₂ and ZnO₂, or their mixtures;

wherein the solvent is one solution or at least two mixed solution selected from the group

consisting of methyl ethyl ketone (MEK), ethyl alcohol, isopropyl alcohol, toluene, xylene, tri-

chloro ethylene, butanol, methanol, acetone, cyclohexanol, nitro-propane, propanol, N-propanol

and water;

wherein the binder is a mixture of water soluble binder and solvent soluble binder having

a volume ratio in the range of 20:1 to 1:20;

wherein the plasticizer is selected from the group consisting of diethyl oxalate.

polyethylene, polyethylene glycol (PEG), dimethyl phthalate (DMP), dibutyl phthalate (DBP),

diocyly phthalate (DOP), butyl benzyl phthalate, polyalkylene glycols, polypropylene glycol

(PPG), tri-ethylene glycol, propylene carbonate, water and butyl stearate, or their mixture; and

wherein the dispersion agent is selected from the group consisting of menhaden fish oil,

polyethyleneimine, glyceryl trioleate, polyacrylic acid, corn oil, polyisobutylene, linoleic acid,

stearic acid, ammonium salt, salt acrylic acid, salt of poly acrylic acids, salt of methacrylic acids,

linseed oil, glycerol triolate, sodium silicate, dibutylamine, ethoxylate, phosphate ester and 4.5-

dihydroxy-1,3-benzenedisulfonic acid (Tiron).

8. (Original) Composition for manufacturing rear plate barrier ribs for PDP

according to claim 7,

wherein the water soluble binder is selected from the group consisting of polyvinyl

alcohol (PVA), hydroxyethyl cellulose (HEC), polyvinyl acetate (PVAc), polyvinyl pyrrolidine

(PVP), methyl cellulose (MC), Hydroxypropylmethyl cellulose (HPMC), polypropylene

carbonate, waxes, emulsion and latex, or their mixture, and has an average molecular weight of

5,000 to 300,000; and

wherein the solvent soluble binder is selected from the group consisting of cellulose,

ethyl cellulose (EC), polyvinyl butyral (PVB), polymethyl methacrylate (PMMA), polyacrylate

ester, polyvinyl pyrrolidine (PVP), polyvinyl chloride, polyethylene, polytetraflouroethylene

(PTFE), poly-α-methyl styrene, polyisobutylene, polyurthane, nitro-cellulose and methyl

methacrylate, or their mixture, and has an average molecular weight of 5,000 to 300,000.

9. (Withdrawn) A Plasma Display Panel (PDP) using the barrier ribs manufactured

according to the method defined in the claim 1.

10. (Currently Amended) A Plasma Display Panel (PDP) using the barrier ribs

manufactured according to the method with the composition defined in claim 6.

11. (New) Composition for manufacturing barrier ribs for a Plasma Display Panel

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(PDP) comprising:

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(a) 100 parts by weight of mixture of glass powder and ceramic powder of which a

volume ratio is in the range of 50:50 to 95:5;

(b) 18 to 40 parts by weight of solvent;

(c) 2 to 12 parts by weight of binder including water soluble components and solvent

soluble components together;

(d) 3 to 18 parts by weight of plasticizer; and

(e) 0.3 to 2 parts by weight of dispersion agent and/or defoaming agent.

12. (New) Composition for manufacturing barrier ribs for a PDP according to claim

6, further comprising 0.3 parts by weight of a surface controller.

13. (New) Composition for manufacturing barrier ribs for a PDP according to claim

11, further comprising 0.3 parts by weight of a surface controller.

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